

BJB Polyurethane TC-8740 A/B

Polyurethane Thermoset Elastomer

BJB Enterprises, Inc.

Message:

TC-8740 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use for the production casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. TC-8740 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-8740 A/B are particularly suitable for mining and mineral process industries.

Product Highlights:

Exceptional abrasion and impact resistant

Contains no MDI, MDA or MOCA

Easy to handle

Room temperature mixing and curing

General Information			
Features	Ultra-high impact resistance		
	Ultra high toughness		
	Good wear resistance		
Uses	Abrasion Resistant Liners		
	Gear		
	Industrial components		
	Mining application		
Appearance	Amber		
	Clear/transparent		
Forms	Liquid		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
-- ¹	1.09	g/cm ³	ASTM D792
-- ²	1.17	g/cm ³	
Shrinkage	0.30	%	ASTM D2566
Gel Time	35.0	min	
Work Time ³ (25°C)	20.0	min	
Cure Time (25°C)	5.0 - 7.0	day	
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	35 - 45		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	14.5	MPa	ASTM D412

200% strain	17.2	MPa	ASTM D412
300% strain	21.2	MPa	ASTM D412
Tensile Strength (Yield)	26.7	MPa	ASTM D412
Tensile Elongation (Break)	550	%	ASTM D412
Tear Strength	81.1	kN/m	ASTM D624
Thermoset	Nominal Value	Unit	Test Method

Thermoset Components

Component a	Mixing ratio by weight: 100, mixing ratio by capacity: 100		
Component B	Mixing ratio by weight: 25, mixing ratio by capacity: 23		
Shelf Life (25°C)	26	wk	
Thermoset Mix Viscosity			Brookfield
25°C ⁴	6150	cP	Brookfield
25°C ⁵	250	cP	Brookfield
25°C	3430	cP	Brookfield
Demold Time (25°C)	240 - 360	min	

Additional Information	Nominal Value	Unit	Test Method
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In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 160°F (71°C).

NOTE

1.	Part A
2.	Part B
3.	100g mass
4.	Part A
5.	Part B

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